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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/660,192 09/11/2003		Robert A. Cochran	10001362-2 5843				
7	7590 08/23/2004				EXAMINER		
HEWLETT-I	PACKARD (MCLEAN MAYO, KIMBERLY N					
Intellectual Pro	perty Admini						
P.O. Box 2724				ART UNIT	PAPER NUMBER		
Fort Collins, (CO 80527-24	2187					

DATE MAILED: 08/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

7

		Application	No.	Applicant(s)				
Office Action Summary		10/660,192		COCHRAN, ROBERT A.				
		Examiner		Art Unit				
		Kimberly N. I	McLean-Mayo	2187				
	The MAILING DATE of this communication	n appears on the co	over sheet with the c	orrespondence add	Iress			
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on _	11 September 200	<u>03</u> .					
7—	This action is FINAL. 2b)⊠ This action is non-final.							
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠	Claim(s) 1-20 is/are pending in the applica	ation.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠)⊠ Claim(s) <u>1 and 15</u> is/are rejected.							
	Claim(s) <u>2-14 and 16-20</u> is/are objected to							
8)□	Claim(s) are subject to restriction a	and/or election req	uirement.					
Applicati	on Papers							
9)[The specification is objected to by the Exa	miner.						
10)⊠ The drawing(s) filed on <u>11 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
	Applicant may not request that any objection to							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(e)							
_	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
	mation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date	,00,00)	атепт Арріісатіоп (РТО	-132)			
S. Patent and Trademark Office								

PTOL-326 (Rev. 1-04)

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DETAILED ACTION

The enclosed detailed action is in response to the Application submitted on April 17,
 2001.

Priority

2. Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows:

An application in which the benefits of an earlier application are desired must contain a specific reference to the prior application(s) in the first sentence of the specification or in an application data sheet (37 CFR 1.78(a)(2) and (a)(5)). The specific reference to any prior nonprovisional application must include the relationship (i.e., continuation, divisional, or continuation-in-part) between the applications except when the reference is to a prior application of a CPA assigned the same application number.

Drawings

3. Figure 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kadoka (PGPUB: US 2002/0138696) in view of Bachmat (USPN: 6,275,897).

Regarding claims 1 and 15, Kadoka discloses a distributed unified data set device group (Figure 1, Reference 14) comprising a first data storage component (a storage region within Reference 20 1 in Figure 1), within a first supervisor local data-storage array (Figure 1, comprised of References 20 1 and 24) receiving write requests (via Reference 24) directed to the first portion of the distributed unified data set from a host computer (Figure 1, Reference 12) via a communications medium; a second data storage component (a storage region within Reference 20_2 in Figure 1), within a second subordinate local data storage array (Reference 20_2 in Figure 1), that stores a second portion of the distributed unified data, the second subordinate local datastorage array (the master data is mirrored in the second subordinate local data storage array and thus the second subordinate local data storage array intrinsically stores a portion of the data set); Kadoka does not disclose a mirror unified data set that mirrors the distributed unified data set stored on one or more remote data storage devices. However, Bachmat discloses a mirror unified data set that mirrors the distributed unified data set stored on one or more remote data storage devices (Figure 1, Reference 12; C 3, L 46-64). This feature taught by Bachmat provides a fault tolerant system by providing a copy of the data at a remote location in the event of a

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failure of the local data. Hence, one of ordinary skill in the art would have recognized reliability afforded by Bachmat's teachings and would have been motivated to use such teachings in Kodoma's system for the desirable purpose of increased reliability.

Allowable Subject Matter

6. Claims 2-14 and 16-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly N. McLean-Mayo whose telephone number is 703-308-9592. The examiner can normally be reached on M (10:00 - 6:30); Tues, Thr (10:00 - 4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on 703-308-1756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Kimberly N. McLean-Mayo

Examiner

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KNM

August 19, 2004

PŘÍMARY EXAMINER